TRITONE DIGITAL

HydraTone

User's Manual

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Welcome to the Land of Tone!

Congratulations on your purchase (or free download) of a great new TriTone Digital plugin!

This document contains all the information you need to get up and running, and for you to understand the features and capabilities of your new plugin.

On a more personal note, we warmly invite you to join our user forum. There, we provide additional support, take suggestions for enhancements to our products, and provide our users with sneak-peaks and beta testing opportunities.

The forum can be found at: www.tritonedigital.com/forum/index.php

We hope you will enjoy your new plugin and, as always, please do not hesitate to contact us with any questions or just to say hello!

Warmest regards,

Damon & Salvator
Co-Founders
TriTone Digital

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HydraTone Overview

HydraTone is a mix-oriented parametric EQ that utilizes state-of-the-art modeling to provide analog EQ flavor with digital precision.

HydraTone allows for band-by-band selection of individual EQ algorithms modeled from world-class analog EQs. HydraTone features four classic EQ models.

This unique TriTone Digital concept allows you to use, for example, the color and charm of a 550 on the top and the strength and heft of an Am-98 on the bottom.

HydraTone's output stage provides several additional algorithms.

The first is a unique signal warming and mild compression algorithm called "Fire". This can be further enhances using the "Blast" switch, which throws some series crunch onto your signal.

The second is the ability to perform frequency-specific phase manipulation similar to that of hardware boxes popular for aligning multi-signal pairs.

Finally, HydraTone allows the user to select a completely separate signal-path model for final output coloration.

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HydraTone System Requirements

HydraTone requires the following minimum system configuration:

- Mac OSX 10.3.9 or later / Windows XP (SP2)
- G5 2 GHz / Pentium 3 GHz or faster recommended
- Up to 32 bit/96 kHz operation
- VST, RTAS and AU support via free Pluggo extensions (see the Installation Instructions section of this manual)
- Requires ProTools 7 or higher for RTAS use
- Pluggo 3.6.1 or higher for Mac use

IMPORTANT: PLUGGO & MAX/MSP OWNERS: Please email us at support@tritonedigital.com with your configuration to ensure compatibility.

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Installation Instructions

IMPORTANT: Before installing our products, you must first download and install Pluggo Runtime (a free download).

Pluggo Runtime is a free set of extensions that allows our plugins to work with VST, RTAS and AU-capable audio programs.

To obtain the correct version of Pluggo Runtime for use with HydraTone, please use the links below:

Mac: http://www.cycling74.com/download/pluggoruntime361.dmg

PC: http://www.synthesisters.com/download/pluggoruntime361.zip

Please install Pluggo Runtime before installing our plugins.

IMPORTANT: PLUGGO & MAX/MSP OWNERS: Please email us at support@tritonedigital.com with your configuration to ensure compatibility.

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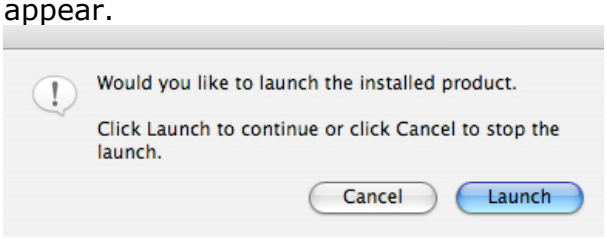
Mac installation (VST, RTAS & AU)

Once Pluggo Runtime is installed, the following steps will install your new TriTone Digital plugin on your system:

Step 1	Launch the TriTone Digital plugin installer.
Step 2	Enter your Mac OSX Admin Password.
Step 3	Follow the on-screen instructions, click "Continue", read and agree to the License Agreement, and then click "Install".
Step 4	At the end of the installation process, a pop-up window will appear.  Click "Launch". This will launch the Pluggo AudioUnit Scan application. This brief application scans for new Pluggo-based plugins (like ours) and updates the list in the Pluggo AU plugin. **Tip**! *Whenever you add/remove a Pluggo plugin, re-run the Pluggo AudioUnit Scan application, located inside your Applications folder.*
Step 5	Installation is now complete!

Tip! If your system cannot find our plugins, you may need to manually refresh your audio application's plugin cache (the list of plugins your audio application is aware of); either through your software or by deleting the plugin cache yourself. Please see your audio applications manual for instructions on how to do this.

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Windows installation (VST & RTAS)

Step 1	Install Pluggo Runtime by launching the "Pluggo 3.6.x Runtime Installer.msi" executable file that came with your Pluggo Runtime download. Follow the on-screen instructions.
Step 2	The installer will ask for the location of your VST plugins folder. Most often, this path is: C:\Program Files\Steinberg\VstPlugins Please select this path, unless you ***ONLY*** run ProTools; with ***NO VST*** hosts present on your system. If you ***ONLY*** run ProTools and ***DO NOT USE ANY VST HOSTS***, then select your ProTools plugins folder, most often found here: C:\Program Files\Common Files\Digidesign\DAE\Plug-Ins Confirm the appropriate path and finish the Pluggo installation.
Step 3	After a proper install of Pluggo Runtime, your folder structure will look something like this: C:\Program Files\Steinberg\VstPlugins\Pluggo Runtime Or like this (if you ***only*** use ProTools): C:\Program Files\Common Files\Digidesign\DAE\Plug-Ins\Pluggo Runtime Pluggo Runtime plugins (like ours) go in this newly created "Pluggo Runtime" folder! *Tip! ProTools will look for plugins placed in this "Pluggo Runtime" folder regardless of its location. So, if you plan to use both VST and RTAS versions of our plugins, you need to select your VST folder during step 2.*
Step 4	Launch the TriTone Digital plugin installer.
Step 5	Follow the on-screen instructions (click "Continue"), locate the "Pluggo Runtime" folder created in Step 2, read and agree to the License Agreement, and click "Install".

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Step 6	Installation is now complete!

Tip! If your system cannot find our plugins, you may need to manually refresh your audio application's plugin cache (the list of plugins your audio application is aware of); either through your software or by deleting the plugin cache yourself. Please see your audio applications manual for instructions on how to do this.

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Authorizing Your Plugin

After installing your plugin, it's time to authorize it so you can get to work!

Our plugins are protected by an embedded proprietary authorization system, designed by TriTone Digital, which links your installer and instance of your plugin directly to your purchase & account information. Please keep your serial number private and safe!

With this system, it's easy to authorize your plugins. Just follow the steps below:

Step 1	Launch your favorite audio application.
Step 2	Insert your new TriTone Digital Plugin on a track.
Step 3	From the plugin interface, click on the button labeled "Enter Serial".
Step 4	A pop-up window will appear, allowing you to enter the serial number you were given by email after your purchase.
Step 5	Type in your serial number.
Step 6	If you have issues typing in the serial number, or if the entry box does not appear (a known issue in some applications under Windows such as WaveLab and ProTools-HD) you can alternately follow Steps 7-9 below.
Step 7	Type your serial number into a text document using your favorite text-editing program (ex: *TextEdit* on Mac). Save this as a .txt text file. Files MUST be plain text not rich text.
Step 8	From the plugin interface, click on the button labeled "Load Serial File". A file dialog box will appear.
Step 9	Select the text file you created in Step 7.
Step 10	Restart your audio application and you are now authorized!

Tip 1: If the "Enter Serial" and "Load Serial File" buttons do not automatically appear, try clicking on the TriTone Digital logo.

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Tip 2: Keep your serial number somewhere safe! You may need it again if you decide (for example) to re-format your hard drive or to perform a clean reinstall of your OS.

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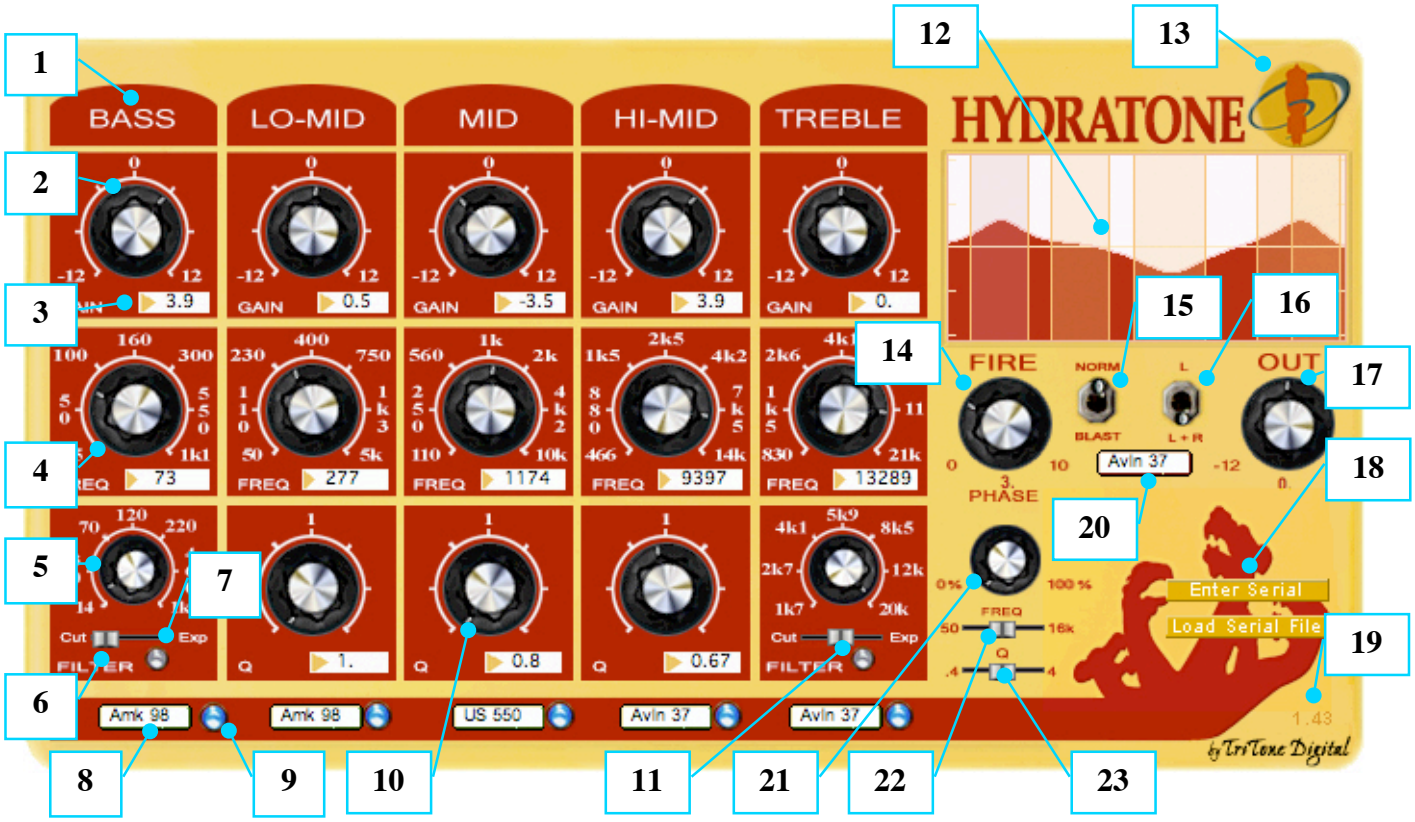
HydraTone Features



1	Bands	Bass, Lo-Mid, Mid, Hi-Mid and Treble Bands. Mid bands are parametric, except for the 550 model which is fixed-Q. Bass and Treble bands are peaking.
2	Gain knob	Adjusts the gain between –12 dB and +12 dB.
3	Value	Displays the numeric value for the current position of the associated control.
4	Frequency knob	Adjusts the center frequency of the given band as follows: Bass = 25 Hz – 1.15 kHz Lo-Mid = 50 Hz – 2.5 kHz Mid = 110 Hz – 10 kHz Hi-Mid = 466 Hz – 14 kHz Treble = 830 Hz – 22 kHz
5	Bass filter frequency knob	Adjusts the center roll-off (or roll-up) frequency of the Bass Filter section from 14 Hz – 1.1 kHz.
6	Bass filter	Moves the filter between Cut and Expansion curves.

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	slider	
7	Filter bypass	Filter bypass switch/indicator. Blue is active, grey is bypassed.
8	Model select	Selects the model for the given band.
9	Band bypass	Band bypass switch/indicator. Blue is active, grey is bypassed.
10	Q knob	Adjusts the Q of the given band. *NOTE: Q is disabled when using the 550 model as this EQ features a fixed-Q for all bands.*
10	Treble filter frequency knob	Adjusts the center roll-off (or roll-up) frequency of the Treble Filter section from 1.7 kHz – 20 kHz.
12	Interactive frequency graph	Displays the current frequency curve. Additionally, the frequency graph is interactive. Yellow, semi-transparent columns indicate bands. Grab a band and pull up/down to adjust gain or left/right to adjust center frequency.
13	TriTone logo	Clicking shows/hides the authorization panel.
14	Fire knob	A unique and complex algorithm that utilizes the color from the main output color, blended with special warm tube circuit model. Fire is interdependent with the current state of your frequency curve and with your selected main output color (see below).
15	Blast switch	Turns your FIRE into a blazing inferno with compression for aggressive punch.
16	L / L+R switch	Allows manual control over the number of active channels to conserve CPU. This is only necessary on platforms that do not automatically lower the CPU usage when used on mono tracks.
17	Output	Controls the main output level.
18	Authorization panel	"Enter Serial" & "Load Serial File" buttons. Please see the "Authorizing Your Plugin" section of this manual for more details. *NOTE: This section disappears once the plugin is authorized.* *NOTE: This section disappears once the plugin is authorized.*
19	Versioning	The version number for your copy of the plugin.
20	Main output	A separate output signal path model, allowing for

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	color	additional creative coloring. This process is dependent on the setting of the Fire knob. At a Fire setting of 0, there is no additional color added (bypass). At a Fire setting of 1, the main output color is added in its natural state without additional Fire coloration. At Fire settings above 1, the main output color is modified by increasing amounts of Fire processing.
21	Phase blend	Frequency-specific phase rotation and correction like popular hardware boxes that correct the phase between signal-pairs. This knob provides the ability to blend the phase corrected material with the original source audio for more EQ-like manipulations. 0% is totally dry, 100% is totally wet.
22	Phase center frequency	Adjusts the center-point for the frequency area to be phase-rotated. Range is 50 Hz to 16 kHz.
23	Phase Q	Adjusts the Q of the frequency area to be phase-rotated

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HydraTone Version History

Version 1.50	• Intel-based Mac CPU optimizations. • Fixed Logic 8 authorization issues.
Version 1.43	• Added serial number authorization.
Version 1.40	• Pluggo 3.6.1 required. • MacIntel / Universal Binary compatible.
Version 1.31	• Modifications to the Windows version of our challenge-response system for greater stability.
Version 1.30	• Better support for Pluggo 3.5.3. • Implementation of our proprietary challenge-response copy protection system for Windows. • Windows SSE CPU optimizations. • Improved frequency knob movement (removed numeric-box drag style entry, see version 1.2.0). • Improved Q knob movement (removed numeric-box drag style entry, see version 1.2.0). • Improved filter knob movement (removed numeric-box drag style entry, see version 1.2.0). • Heavy optimizing of most scheduler events. • Clicking on the TriTone Digital logo displays the authorization fields.
Version 1.20	• Better support for Pluggo 3.5.2. • Implementation of a proprietary challenge-response copy protection system. • Newly designed frequency graph with user-adjustable EQ handles. • Improved number-boxes that allow the user to click and drag to adjust the value (i.e. to fine tune gain value). NOTE: This works for frequency as well, but you have to drag further as this is a stepped-control. • Plugin initialization scheme redesigned. • Various code-trimming & optimizations. • Graphic improvements.
Version 1.14	• Fixed audio clicks at the beginning of the first crossed region for hosts that use dynamic CPU management. • Improved recall of the filter fader.
Version 1.12	• Various bug fixes.
Version 1.10	• Addition of two more EQ models. • Implemented improved filter bypass. • Various bug fixes.

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Version 1.0	• Initial release.

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Support

If you have any issues with your new plugin, please first re-read this manual, paying particular attention to the sections on System Requirements, Installation Instructions and Features. Please also note any sections of the document indicated by these symbols.

Tips

Warnings

Also consider visiting our user forum at:

www.tritonedigital.com/forum/index.php

We often interact directly with our users on this forum to solve their issues. By searching the forum you may find your issue has already been solved!

If these tips do not solve your issues, then please don't hesitate to contact us at support@tritonedigital.com.

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